1310 nm LASER DIODE MODULES FL-3500 SERIES

UNCOOLED MQW-FP LD WITH RECEPTACLE

FEATURES

- 1310 nm typical emission wavelength
- High reliability, long operation life
- High temperature operation without active cooling
- Build-in InGaAs monitor

APPLICATION

Trunk Line, FitL

DESCRIPTION

FL-3500 series are designed for coupling a single mode optical fiber with 1310 nm MQW-FP uncooled laser diode. FL-3500 series are the best kits as light sources for telecom and datacom applications.

ELECTRICAL AND OPTICAL CHARACTERISTICS (T_C=25 °C)

Symbol	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
I_{th}	Threshold Current	CW		12	15	mA
V_{OP}	Operating Voltage	CW, I_F=Ith+20mA		1.2	1.5	V
P_f	Optical Output Power	CW, I_F=Ith+20mA				
	Part No:FL-350X		0.2	-	-	mW
	FL-351X		0.5	-	-	
	FL-352X		1.0	-	-	
	FL-353X		2.0			
λc	Center Wavelength	CW, I_{th}+20mA	1290	1310	1330	nm
$\Delta \lambda$	Spectral Width	CW, I_{th}+20mA, RMS		1	3	nm
t_r, t_f	Rise And Fall Times	I_F=I_{th}, I_{th}+20mA,10~90%			0.3	ns
$\Delta P_f / P_f$	Tracking Error	APC, -40~+85 ºC	-	-	±1.0	dB
I_m	PD Monitor Current	CW, I_{th}+20mA ,V_{RD}=1V	100			μA
I_D	PD Dark Current	V_{RD}=5V			0.1	μA
C_t	PD Capacitance	V_{RD}=5V, f=1MHz		10	15	pF

ABSOLUTE MAXIMUM RATINGS (T_C=25 ºC)

Symbol	Parameter	Ratings	Unit
P_o	Optical Output Power (350X/351X/352X/353X)	0.5/1.0/1.5/3	mW
V_{RL}	LD Reverse Voltage	2	V
V_{RD}	PD Reverse Voltage	10	V
I_{FD}	PD Forward Current	1.0	mA
T_{opr}	Operating Temperature	-40~+85	ºC
T_{stg}	Storage Temperature	-40~+85	ºC

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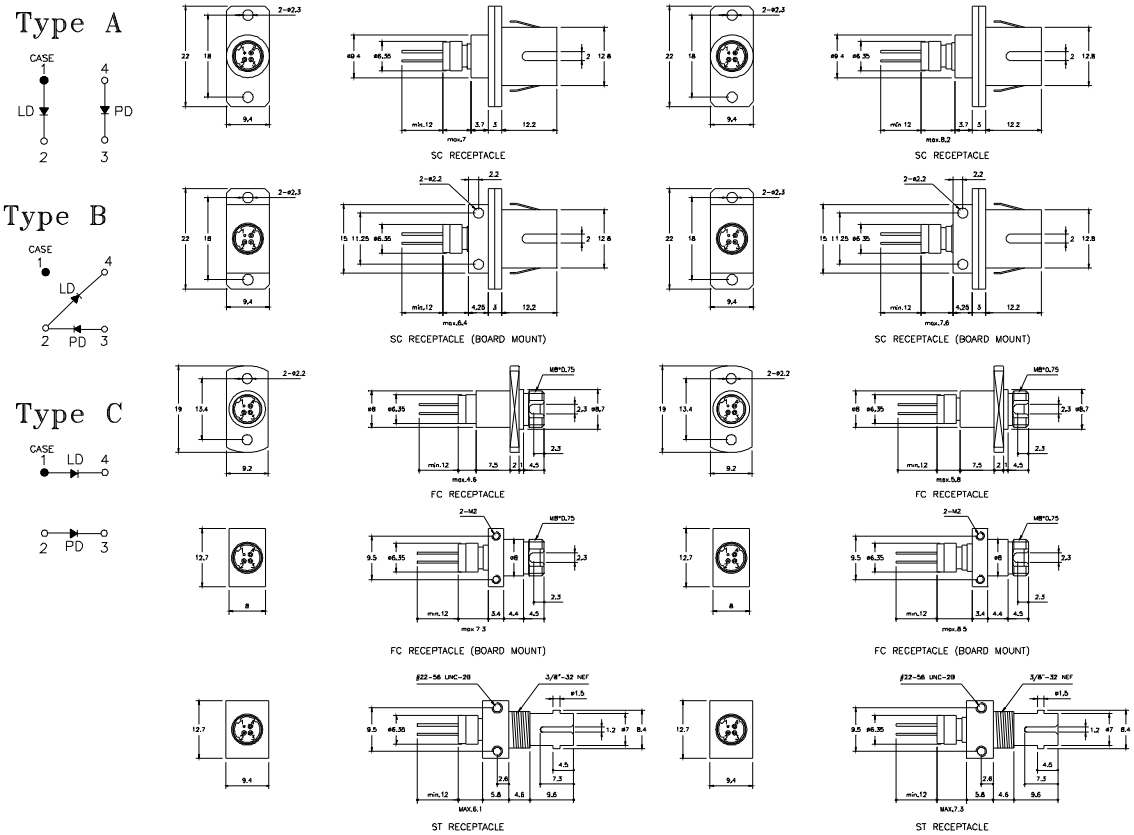
MECHANICAL DIMENSION (mm) and PIN ASSIGNMENT



FL-350X
FL-351X

FL-352X
FL-353X

Note: Specifications subject to change without notice.

ORDER INFORMATION

Part No.: F L - 3 5 □ □ □ - □ □

Code	Pout (mw)
0	0.2
1	0.5
2	1
3	2

Code	Flange
Blank	1.25 Gbps
S	2.5 Gbps

Code	Pin Assignment
0	Type A
5	Type B
8	Type C

Code	Isolator
Blank	No
S	Single-Stage

Code	Connector Type
S	SC/PC
SB	SC/PC (Board Mount)
F	FC/PC
FB	FC/PC (Board Mount)
T	ST/PC

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